

Martin H Gerzabek

List of Publications by Year in descending order

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155
papers

8,901
citations

50170

46
h-index

46693

89
g-index

160
all docs

160
docs citations

160
times ranked

9852
citing authors

#	ARTICLE	IF	CITATIONS
1	Characterization of Slow Pyrolysis Biochars: Effects of Feedstocks and Pyrolysis Temperature on Biochar Properties. <i>Journal of Environmental Quality</i> , 2012, 41, 990-1000.	1.0	736
2	Microbial Population Structures in Soil Particle Size Fractions of a Long-Term Fertilizer Field Experiment. <i>Applied and Environmental Microbiology</i> , 2001, 67, 4215-4224.	1.4	623
3	Microaggregates in soils. <i>Journal of Plant Nutrition and Soil Science</i> , 2018, 181, 104-136.	1.1	567
4	Organic matter and enzyme activity in particle-size fractions of soils obtained after low-energy sonication. <i>Soil Biology and Biochemistry</i> , 1998, 30, 9-17.	4.2	287
5	FTIR spectroscopic characterization of humic acids and humin fractions obtained by advanced NaOH, Na ₄ P ₂ O ₇ , and Na ₂ CO ₃ extraction procedures. <i>Journal of Plant Nutrition and Soil Science</i> , 2007, 170, 522-529.	1.1	232
6	Increased soil organic carbon sequestration through hydrophobic protection by humic substances. <i>Soil Biology and Biochemistry</i> , 2002, 34, 1839-1851.	4.2	231
7	The Multiradical Character of One- and Two-Dimensional Graphene Nanoribbons. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 2581-2584.	7.2	197
8	Comparison of the composition of forest soil litter derived from three different sites at various decompositional stages using FTIR spectroscopy. <i>Geoderma</i> , 1998, 83, 331-342.	2.3	192
9	Wettability of kaolinite (001) surfaces – Molecular dynamic study. <i>Geoderma</i> , 2011, 169, 47-54.	2.3	176
10	Solvent Effects on Hydrogen Bonds: A Theoretical Study. <i>Journal of Physical Chemistry A</i> , 2002, 106, 1862-1871.	1.1	167
11	An alternative method to measure carbonate in soils by FT-IR spectroscopy. <i>Environmental Chemistry Letters</i> , 2007, 5, 9-12.	8.3	161
12	Microbial community composition and activity in different Alpine vegetation zones. <i>Soil Biology and Biochemistry</i> , 2010, 42, 155-161.	4.2	156
13	Tillage changes microbial biomass and enzyme activities in particle-size fractions of a Haplic Chernozem. <i>Soil Biology and Biochemistry</i> , 1999, 31, 1253-1264.	4.2	151
14	Ab Initio Molecular Dynamics Study of a Monomolecular Water Layer on Octahedral and Tetrahedral Kaolinite Surfaces. <i>Journal of Physical Chemistry B</i> , 2004, 108, 5930-5936.	1.2	146
15	Rhizosphere bacteria affected by transgenic potatoes with antibacterial activities compared with the effects of soil, wild-type potatoes, vegetation stage and pathogen exposure. <i>FEMS Microbiology Ecology</i> , 2006, 56, 219-235.	1.3	143
16	Biogeochemical interfaces in soil: The interdisciplinary challenge for soil science. <i>Journal of Plant Nutrition and Soil Science</i> , 2010, 173, 88-99.	1.1	143
17	Soil organic matter stocks and characteristics along an Alpine elevation gradient. <i>Journal of Plant Nutrition and Soil Science</i> , 2010, 173, 30-38.	1.1	133
18	Soil Organic Matter Pools and Carbon Natural Abundances in Particle-Size Fractions of a Long-Term Agricultural Field Experiment Receiving Organic Amendments. <i>Soil Science Society of America Journal</i> , 2001, 65, 352-358.	1.2	121

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19	Characterization of Waste Organic Matter by FT-IR Spectroscopy: Application in Waste Science. <i>Applied Spectroscopy</i> , 2002, 56, 1170-1175.	1.2	118
20	Mechanisms of solute transport affect small-scale abundance and function of soil microorganisms in the detritosphere. <i>European Journal of Soil Science</i> , 2006, 57, 583-595.	1.8	112
21	The effect of maize straw placement on mineralization of C and N in soil particle size fractions. <i>European Journal of Soil Science</i> , 1999, 50, 73-85.	1.8	109
22	How are soil use and management reflected by soil organic matter characteristics: a spectroscopic approach. <i>European Journal of Soil Science</i> , 2006, 57, 485-494.	1.8	108
23	Theoretical Study of Adsorption Sites on the (001) Surfaces of 1:1 Clay Minerals. <i>Langmuir</i> , 2002, 18, 139-147.	1.6	106
24	Ab Initio Molecular Dynamics Study of Adsorption Sites on the (001) Surfaces of 1:1 Dioctahedral Clay Minerals. <i>Journal of Physical Chemistry B</i> , 2002, 106, 11515-11525.	1.2	105
25	Invertase and xylanase activity of bulk soil and particle-size fractions during maize straw decomposition. <i>Soil Biology and Biochemistry</i> , 1998, 31, 9-18.	4.2	101
26	Sorption of heavy metals on organic and inorganic soil constituents. <i>Environmental Chemistry Letters</i> , 2007, 5, 23-27.	8.3	92
27	Phosphorus sorption-desorption in alluvial soils of a young weathering sequence at the Danube River. <i>Geoderma</i> , 2009, 149, 39-44.	2.3	87
28	Distribution of Road Salt Residues, Heavy Metals and Polycyclic Aromatic Hydrocarbons across a Highway-Forest Interface. <i>Water, Air, and Soil Pollution</i> , 2009, 198, 125-132.	1.1	85
29	Rapid carbon accretion and organic matter pool stabilization in riverine floodplain soils. <i>Global Biogeochemical Cycles</i> , 2009, 23, .	1.9	80
30	Immobilising of Cd, Pb, and Zn contaminated arable soils close to a former Pb/Zn smelter: a field study in Austria over 5 years. <i>Environmental Geochemistry and Health</i> , 2009, 31, 581-594.	1.8	74
31	Molecular Dynamics Simulations of the Standard Leonardite Humic Acid: Microscopic Analysis of the Structure and Dynamics. <i>Environmental Science & Technology</i> , 2017, 51, 5414-5424.	4.6	71
32	Increased Sequestration of Organic Carbon in Soil by Hydrophobic Protection. <i>Die Naturwissenschaften</i> , 1999, 86, 496-499.	0.6	69
33	Vertical migration of radionuclides in undisturbed grassland soils. <i>Journal of Environmental Radioactivity</i> , 2009, 100, 716-720.	0.9	67
34	Interaction of minerals, organic matter, and microorganisms during biogeochemical interface formation as shown by a series of artificial soil experiments. <i>Biology and Fertility of Soils</i> , 2017, 53, 9-22.	2.3	67
35	Distribution of radiocaesium in an Austrian forest stand. <i>Science of the Total Environment</i> , 1999, 226, 75-83.	3.9	64
36	Effects of level and quality of organic matter input on carbon storage and biological activity in soil: Synthesis of a long-term experiment. <i>Global Biogeochemical Cycles</i> , 2004, 18, n/a-n/a.	1.9	61

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37	Response of the sorption behavior of Cu, Cd, and Zn to different soil management. <i>Journal of Plant Nutrition and Soil Science</i> , 2006, 169, 60-68.	1.1	58
38	Dating of soil layers in a young floodplain using iron oxide crystallinity. <i>Quaternary Geochronology</i> , 2009, 4, 260-266.	0.6	57
39	Influence of Molecular Structure on Sorption of Phenoxyalkanoic Herbicides on Soil and Its Particle Size Fractions. <i>Journal of Agricultural and Food Chemistry</i> , 2000, 48, 3722-3727.	2.4	55
40	Decomposition of beech (<i>Fagus sylvatica</i>) and pine (<i>Pinus nigra</i>) litter along an Alpine elevation gradient: Decay and nutrient release. <i>Geoderma</i> , 2015, 251-252, 92-104.	2.3	55
41	Molecular Dynamics Simulations of Water Molecule-Bridges in Polar Domains of Humic Acids. <i>Environmental Science & Technology</i> , 2011, 45, 8411-8419.	4.6	54
42	Relationship between soil organic matter and micropores in a long-term experiment at Ultuna, Sweden. <i>Journal of Plant Nutrition and Soil Science</i> , 1999, 162, 493-498.	1.1	52
43	Linking dynamics of soil microbial phospholipid fatty acids to carbon mineralization in a ¹³ C natural abundance experiment: Impact of heavy metals and acid rain. <i>Soil Biology and Biochemistry</i> , 2007, 39, 3177-3186.	4.2	52
44	Acid-base properties of a goethite surface model: A theoretical view. <i>Geochimica Et Cosmochimica Acta</i> , 2008, 72, 3587-3602.	1.6	50
45	Determination of Organic and Inorganic Carbon in Forest Soil Samples by Mid-Infrared Spectroscopy and Partial Least Squares Regression. <i>Applied Spectroscopy</i> , 2010, 64, 1167-1175.	1.2	48
46	<i>In situ</i> carbon turnover dynamics and the role of soil microorganisms therein: a climate warming study in an Alpine ecosystem. <i>FEMS Microbiology Ecology</i> , 2013, 83, 112-124.	1.3	48
47	Stabilizing Capacity of Water Bridges in Nanopore Segments of Humic Substances: A Theoretical Investigation. <i>Journal of Physical Chemistry C</i> , 2009, 113, 16468-16475.	1.5	47
48	Activity of microorganisms in the rhizosphere of herbicide treated and untreated transgenic glufosinate-tolerant and wildtype oilseed rape grown in containment. <i>Plant and Soil</i> , 2005, 266, 105-116.	1.8	46
49	Impact of different tillage practices on molecular characteristics of humic acids in a long-term field experiment – An application of three different spectroscopic methods. <i>Science of the Total Environment</i> , 2008, 406, 256-268.	3.9	46
50	The functionality of cation bridges for binding polar groups in soil aggregates. <i>International Journal of Quantum Chemistry</i> , 2011, 111, 1531-1542.	1.0	46
51	Response of sorption processes of MCPA to the amount and origin of organic matter in a long-term field experiment. <i>European Journal of Soil Science</i> , 2001, 52, 279-286.	1.8	45
52	Interaction of Acetate Anion with Hydrated Al ³⁺ Cation: A Theoretical Study. <i>Journal of Physical Chemistry A</i> , 2000, 104, 6824-6833.	1.1	44
53	Responses of the soil microbiota to elevated CO ₂ in an artificial tropical ecosystem. <i>Journal of Microbiological Methods</i> , 1999, 36, 45-54.	0.7	43
54	Soil-to-plant transfer of fallout caesium and strontium in Austrian lowland and Alpine pastures. <i>Journal of Environmental Radioactivity</i> , 2000, 49, 217-233.	0.9	43

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55	Response of Soil Aggregate Stability to Manure Amendments in the Ultuna Long-Term Soil Organic Matter Experiment. Zeitschrift Fur Pflanzenernahrung Und Bodenkunde = Journal of Plant Nutrition and Plant Science, 1995, 158, 257-260.	0.4	41
56	A density-functional investigation of aluminium(III)-citrate complexes. Physical Chemistry Chemical Physics, 2001, 3, 1979-1985.	1.3	41
57	Interaction of the 2,4-dichlorophenoxyacetic acid herbicide with soil organic matter moieties: a theoretical study. European Journal of Soil Science, 2007, 58, 889-899.	1.8	40
58	Adsorption of organic substances on broken clay surfaces: A quantum chemical study. Journal of Computational Chemistry, 2003, 24, 1853-1863.	1.5	39
59	Long-term effects of cropped vs. fallow and fertilizer amendments on soil organic matter I. Organic carbon. Journal of Plant Nutrition and Soil Science, 2005, 168, 108-116.	1.1	39
60	Quantum Chemical Adsorption Studies on the (110) Surface of the Mineral Goethite. Journal of Physical Chemistry C, 2007, 111, 877-885.	1.5	39
61	Retention of copper, cadmium and zinc in soil and its textural fractions influenced by long-term field management. European Journal of Soil Science, 2007, 58, 1145-1154.	1.8	39
62	Transformation of organic matter from maize residues into labile and humic fractions of three European soils as revealed by ¹³ C distribution and CPMAS-NMR spectra. European Journal of Soil Science, 2000, 51, 583-594.	1.8	39
63	Decomposition of maize straw in three European soils as revealed by DRIFT spectra of soil particle fractions. Geoderma, 2001, 99, 245-260.	2.3	38
64	¹³⁷ Cs-migration in soils and its transfer to roe deer in an Austrian forest stand. Science of the Total Environment, 1996, 181, 237-247.	3.9	37
65	The thermodynamic stability of hydrogen bonded and cation bridged complexes of humic acid models – A theoretical study. Chemical Physics, 2008, 349, 69-76.	0.9	37
66	Model study on sorption of polycyclic aromatic hydrocarbons to goethite. Journal of Colloid and Interface Science, 2009, 330, 244-249.	5.0	37
67	Transfer of iodine from soil to cereal grains in agricultural areas of Austria. Science of the Total Environment, 2001, 267, 33-40.	3.9	36
68	Influence of dissolved humic substances on the leaching of MCPA in a soil column experiment. Chemosphere, 2002, 46, 495-499.	4.2	36
69	Modeling Catalytic Effects of Clay Mineral Surfaces on Peptide Bond Formation. Journal of Physical Chemistry B, 2004, 108, 10120-10130.	1.2	36
70	Iodine and bromine contents of some Austrian soils and relations to soil characteristics. Journal of Plant Nutrition and Soil Science, 1999, 162, 415-419.	1.1	34
71	An Andosol – Cambisol toposequence on granite in the Austrian Bohemian Massif. Catena, 2004, 56, 31-43.	2.2	34
72	Vienna Soil-Organic-Matter Modeler – Generating condensed-phase models of humic substances. Journal of Molecular Graphics and Modelling, 2015, 62, 253-261.	1.3	33

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73	Vertical Redistribution of Soil Organic Carbon Pools After Twenty Years of Nitrogen Addition in Two Temperate Coniferous Forests. <i>Ecosystems</i> , 2019, 22, 379-400.	1.6	33
74	From sediment to soil: floodplain phosphorus transformations at the Danube River. <i>Biogeochemistry</i> , 2008, 88, 117-126.	1.7	31
75	Impact of different plants on the gas profile of a landfill cover. <i>Waste Management</i> , 2011, 31, 843-853.	3.7	31
76	A density functional theoretical study on solvated Al ³⁺ -oxalate complexes: structures and thermodynamic properties. <i>Physical Chemistry Chemical Physics</i> , 2000, 2, 2845-2850.	1.3	30
77	Soil management system effects on size fractionated humic substances. <i>Geoderma</i> , 1999, 92, 87-109.	2.3	29
78	Formation of 2,4-D complexes on montmorillonites ? an ab initio molecular dynamics study. <i>European Journal of Soil Science</i> , 2007, 58, 680-691.	1.8	29
79	The Effect of Landfill Leachate Irrigation on Soil Gas Composition: Methane Oxidation and Nitrous Oxide Formation. <i>Water, Air, and Soil Pollution</i> , 2005, 164, 295-313.	1.1	28
80	Radiocaesium contamination of meadow vegetation – time-dependent variability and influence of soil characteristics at grassland sites in Austria. <i>Journal of Environmental Radioactivity</i> , 2002, 58, 143-161.	0.9	27
81	SORPTION OF PHENOXYACETIC ACID HERBICIDES ON THE KAOLINITE MINERAL SURFACE – AN AB INITIO MOLECULAR DYNAMICS SIMULATION. <i>Soil Science</i> , 2004, 169, 44-54.	0.9	26
82	Study of solvent effect on the stability of water bridge-linked carboxyl groups in humic acid models. <i>Geoderma</i> , 2011, 169, 20-26.	2.3	26
83	Lignin decomposition along an Alpine elevation gradient in relation to physicochemical and soil microbial parameters. <i>Global Change Biology</i> , 2014, 20, 2272-2285.	4.2	26
84	Vertical migration of ⁶⁰ Co, ¹³⁷ Cs and ²²⁶ Ra in agricultural soils as observed in lysimeters under crop rotation. <i>Journal of Environmental Radioactivity</i> , 2005, 79, 93-106.	0.9	24
85	Ab initio calculations of relative stabilities of different structural arrangements in dioctahedral phyllosilicates. <i>Clays and Clay Minerals</i> , 2007, 55, 220-232.	0.6	24
86	Thermodynamic stability of hydrogen-bonded systems in polar and nonpolar environments. <i>Journal of Computational Chemistry</i> , 2010, 31, 2046-2055.	1.5	24
87	⁹⁰ Sr AND ¹³⁷ Cs IN ENVIRONMENTAL SAMPLES FROM DOLON NEAR THE SEMIPALATINSK NUCLEAR TEST SITE. <i>Health Physics</i> , 2000, 79, 257-265.	0.3	23
88	Fallout strontium and caesium transfer from vegetation to cow milk at two lowland and two Alpine pastures. <i>Journal of Environmental Radioactivity</i> , 2001, 54, 267-273.	0.9	23
89	Long-term behaviour of ¹⁵ N in an alpine grassland ecosystem. <i>Biogeochemistry</i> , 2004, 70, 59-69.	1.7	23
90	Sorption of naphthalene derivatives to soils from a long-term field experiment. <i>Chemosphere</i> , 2005, 59, 639-647.	4.2	23

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91	Decomposition of Carbon-14 Labeled Organic Amendments and Humic Acids in a Long-Term Field Experiment. <i>Soil Science Society of America Journal</i> , 2009, 73, 744-750.	1.2	22
92	Spectroscopic behaviour of 14C-labeled humic acids in a long-term field experiment with three cropping systems. <i>Soil Research</i> , 2009, 47, 459.	0.6	22
93	Radical sites in humic acids: A theoretical study on protocatechuic and gallic acids. <i>Computational and Theoretical Chemistry</i> , 2014, 1032, 42-49.	1.1	22
94	Heavy metal contents, mobility and origin in agricultural topsoils of the Galápagos Islands. <i>Chemosphere</i> , 2021, 272, 129821.	4.2	22
95	Nitrogen distribution and 15N natural abundances in particle size fractions of a long-term agricultural field experiment. <i>Journal of Plant Nutrition and Soil Science</i> , 2001, 164, 475.	1.1	21
96	Influence of Soil Amendments on Heavy Metal Accumulation in Crops on Polluted Soils of Bangladesh. <i>Communications in Soil Science and Plant Analysis</i> , 2005, 36, 907-924.	0.6	21
97	Agriculture changes soil properties on the Galápagos Islands – two case studies. <i>Soil Research</i> , 2019, 57, 201.	0.6	21
98	Resistant Soil Microbial Communities Show Signs of Increasing Phosphorus Limitation in Two Temperate Forests After Long-Term Nitrogen Addition. <i>Frontiers in Forests and Global Change</i> , 2019, 2, .	1.0	21
99	Non-destructive soil amendment application techniques on heavy metal-contaminated grassland: Success and long-term immobilising efficiency. <i>Journal of Environmental Management</i> , 2017, 186, 167-174.	3.8	19
100	Polarization Effects in Simulations of Kaolinite-Water Interfaces. <i>Langmuir</i> , 2019, 35, 15086-15099.	1.6	19
101	Soil organic matter stabilization at molecular scale: The role of metal cations and hydrogen bonds. <i>Geoderma</i> , 2021, 401, 115237.	2.3	19
102	Theoretical study of structural, mechanical and spectroscopic properties of boehmite (β -AlOOH). <i>Journal of Physics Condensed Matter</i> , 2011, 23, 404201.	0.7	18
103	The stability of the acetic acid dimer in microhydrated environments and in aqueous solution. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 4162.	1.3	18
104	Accumulation of radionuclides from radioactive substrata by some micromycetes. <i>Journal of Environmental Radioactivity</i> , 2003, 67, 119-130.	0.9	17
105	Long-term effects of cropped vs. fallow and fertilizer amendments on soil organic matter II. Nitrogen. <i>Journal of Plant Nutrition and Soil Science</i> , 2005, 168, 212-218.	1.1	17
106	Luminescence dating of historical fluvial deposits from the Danube and Ebro. <i>Geoarchaeology - an International Journal</i> , 2009, 24, 224-241.	0.7	17
107	Weathering and soil formation in rhyolitic tephra along a moisture gradient on Alcedo Volcano, Galápagos. <i>Geoderma</i> , 2019, 343, 215-225.	2.3	17
108	Soil-carbon turnover under different crop management: Evaluation of RothC-model predictions under Pannonian climate conditions. <i>Journal of Plant Nutrition and Soil Science</i> , 2010, 173, 662-670.	1.1	16

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109	Soil microbial community dynamics and phenanthrene degradation as affected by rape oil application. <i>Applied Soil Ecology</i> , 2010, 46, 329-334.	2.1	16
110	Molecular modelling of sorption processes of a range of diverse small organic molecules in Leonardite humic acid. <i>European Journal of Soil Science</i> , 2020, 71, 831-844.	1.8	16
111	The response of soil nitrogen and ¹⁵ N natural abundance to different amendments in a long-term experiment at Ultuna, Sweden. <i>Agronomy for Sustainable Development</i> , 1999, 19, 457-466.	0.8	16
112	Role of Microorganisms in Carbon Cycling in Soils. , 2005, , 139-157.		15
113	A contribution of molecular modeling to supramolecular structures in soil organic matter. <i>Journal of Plant Nutrition and Soil Science</i> , 2022, 185, 44-59.	1.1	14
114	Linking rock age and soil cover across four islands on the Galápagos archipelago. <i>Journal of South American Earth Sciences</i> , 2020, 99, 102500.	0.6	13
115	Soil development and mineral transformations along a one-million-year chronosequence on the Galápagos Islands. <i>Soil Science Society of America Journal</i> , 2021, 85, 2077-2099.	1.2	13
116	Effects of different chloroform stabilizers on the extraction efficiencies of phospholipid fatty acids from soils. <i>Soil Biology and Biochemistry</i> , 2009, 41, 428-430.	4.2	12
117	Proton transfer processes in polar regions of humic substances initiated by aqueous aluminum cation bridges: A computational study. <i>Geoderma</i> , 2014, 213, 115-123.	2.3	12
118	Cation-π interactions in competition with cation microhydration: a theoretical study of alkali metal cation-pyrene complexes. <i>Journal of Molecular Modeling</i> , 2017, 23, 131.	0.8	12
119	Influence of plowing on the depth distribution of various radionuclides in the soil. <i>Zeitschrift Fur Pflanzenernahrung Und Bodenkunde = Journal of Plant Nutrition and Plant Science</i> , 1991, 154, 211-215.	0.4	11
120	Influence of Cereal Varieties and Site Conditions on Heavy Metal Accumulations in Cereal Crops on Polluted Soils of Bangladesh. <i>Communications in Soil Science and Plant Analysis</i> , 2005, 36, 889-906.	0.6	11
121	Mid-infrared spectroscopy for topsoil layer identification according to litter type and decompositional stage demonstrated on a large sample set of Austrian forest soils. <i>Geoderma</i> , 2011, 166, 162-170.	2.3	11
122	Adsorption process of polar and nonpolar compounds in a nanopore model of humic substances. <i>European Journal of Soil Science</i> , 2020, 71, 845-855.	1.8	11
123	On glyphosate-kaolinite surface interactions. A molecular dynamic study. <i>European Journal of Soil Science</i> , 2021, 72, 1231-1242.	1.8	11
124	Fundamentals of Organic Agriculture – Past and Present. , 2009, , 13-37.		11
125	Behaviour of radionuclides in soil/crop systems following contamination. <i>Radioactivity in the Environment</i> , 2007, 10, 19-42.	0.2	10
126	Differences in sorption behavior of the herbicide 4-chloro-2-methylphenoxyacetic acid on artificial soils as a function of soil pre-aging. <i>Journal of Soils and Sediments</i> , 2012, 12, 1292-1298.	1.5	10

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127	14C-labeled organic amendments: Characterization in different particle size fractions and humic acids in a long-term field experiment. <i>Geoderma</i> , 2012, 177-178, 39-48.	2.3	10
128	Soil Carbon Research Priorities. , 2014, , 483-490.		10
129	Treatment of Landfill Leachate by Irrigation and Interaction with Landfill Gas. <i>Environmental Technology (United Kingdom)</i> , 2006, 27, 447-457.	1.2	9
130	Capillary electrophoresis characterisation of humic acids: application to diverse forest soil samples. <i>Environmental Chemistry</i> , 2011, 8, 589.	0.7	9
131	Impact of soil development on Cu sorption along gradients of soil age and moisture on the Gal�ipagos Islands. <i>Catena</i> , 2020, 189, 104507.	2.2	9
132	Characterisation of microbial communities in relation to physical��chemical parameters during in situ aeration of waste material. <i>Waste Management</i> , 2010, 30, 2177-2184.	3.7	8
133	Changes in topsoil characteristics with climate and island age in the agricultural zones of the Gal�ipagos. <i>Geoderma</i> , 2020, 376, 114534.	2.3	8
134	Xylanase, Invertase and Urease Activity in Particle - Size Fractions of Soils. , 1999, , 275-286.		8
135	Metabolised Tritium and Radiocarbon in Lichens and Their Use as Biomonitors. <i>Journal of Atmospheric Chemistry</i> , 2004, 49, 329-341.	1.4	7
136	Soil Redistribution Model for Undisturbed and Cultivated Sites Based on Chernobyl-Derived Cesium-137 Fallout. <i>Journal of Environmental Quality</i> , 2005, 34, 1302-1310.	1.0	7
137	Advances of molecular modeling of biogeochemical interfaces in soils. <i>Geoderma</i> , 2011, 169, 1-3.	2.3	6
138	Ventomod: a dynamic model for leaf to fruit transfer of radionuclides in processing tomato plants (<i>Lycopersicon esculentum</i> Mill.) following a direct contamination event. <i>Journal of Environmental Radioactivity</i> , 2003, 65, 309-328.	0.9	5
139	Multi-class determination of anthelmintics in soil and water by LC-MS/MS. <i>Food Additives and Contaminants - Part A Chemistry, Analysis, Control, Exposure and Risk Assessment</i> , 2013, 30, 1128-1137.	1.1	5
140	On the Adsorption Mechanism of Humic Substances on Kaolinite and Their Microscopic Structure. <i>Minerals (Basel, Switzerland)</i> , 2021, 11, 1138.	0.8	5
141	Interaction of naphthalene derivatives with soil: an experimental and theoretical case study. <i>European Journal of Soil Science</i> , 2007, 58, 967-977.	1.8	4
142	Sorption of Selected Aromatic Substances��Application of Kinetic Concepts and Quantum Mechanical Modeling. <i>Water, Air, and Soil Pollution</i> , 2011, 215, 449-464.	1.1	4
143	Wettability of organically coated tridymite surface �� molecular dynamics study. <i>Pure and Applied Chemistry</i> , 2015, 87, 405-413.	0.9	4
144	Molecular Models of Cation and Water Molecule Bridges in Humic Substances. , 2014, , 107-115.		4

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145	Determination of Soil Organic Matter Features of Extractable Fractions Using Capillary Electrophoresis: An Organic Matter Stabilization Study in a Carbon-14-Labeled Long-Term Field Experiment. <i>SSSA Special Publication Series</i> , 2015, , 23-40.	0.2	3
146	Phosphate sorption&desorption properties in volcanic topsoils along a chronosequence and a climatic gradient on the Gal&pagos Islands. <i>Journal of Plant Nutrition and Soil Science</i> , 2021, 184, 479-491.	1.1	3
147	Recent Developments of No-Till and Organic Farming in India: Is a Combination of These Approaches Viable?. <i>Agroecology and Sustainable Food Systems</i> , 2011, 35, 576-612.	0.9	2
148	Cadmium retention and microbial response in volcanic soils along gradients of soil age and climate on the Gal&pagos Islands. <i>Journal of Environmental Quality</i> , 2021, 50, 1233-1245.	1.0	2
149	Soil Fertility Changes With Climate and Island Age in Gal&pagos: New Baseline Data for Sustainable Agricultural Management. <i>Frontiers in Environmental Science</i> , 2021, 9, .	1.5	2
150	Soil organic carbon and fine particle stocks along a volcanic chrono- and elevation-sequence on the Gal&pagos archipelago/Ecuador. <i>Geoderma Regional</i> , 2022, 29, e00508.	0.9	2
151	Editorial: Molecular modelling in soil research. <i>European Journal of Soil Science</i> , 2007, 58, 867-869.	1.8	1
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155	Soil organic matter in molecular simulations. , 2022, , .		0